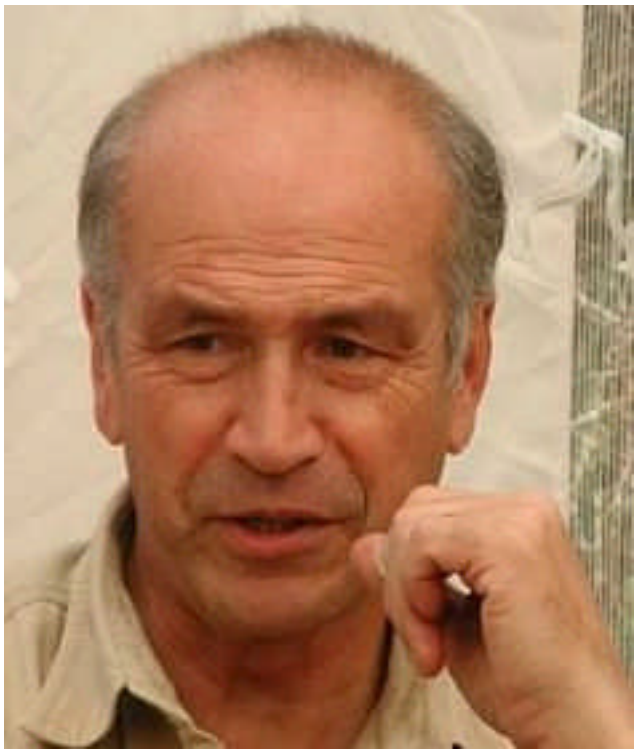

Ray Jarvis completed a BE (Elec.) and Ph.D.(Elec.) at the University of Western Australia in 1962 and 1968, respectively. After two years at Purdue University he returned to Australia and took up a Senior Lectureship at the Australian National University where he was instrumental in establishing the Dept. of Computer Science. In 1985 he took up a Chair in the Dept. of Electrical and Computer Systems Engineering at Monash University and established the Intelligent Robotics Research Centre in 1987and continues to be its Director. He is a Fellow of the IEEE(from 1992). His research interests include Artificial Intelligence, Computer Vision, Pattern Recognition and Intelligent Robotics. Between 2003 and 2007 he was the Director of the Australian Research Council Centre for Perceptive and Intelligent Machines in Complex Environments.

He has published over 300 scientific papers in the areas of Image Processing, Pattern Recognition, Computer Vision, Intelligent Robotics, Virtual reality, Computational Geometry and Optimisation. In recent times he has worked in partnership with the Victorian Country Fire Authority on a project involving the sensor rich teleoperation of a variety of vehicles, including fire trucks, front end loaders, boom lift trucks, farm bikes and excavators for the support of bush fire fighting and related search and rescue. With a second industrial partner he has also worked on security robotics for the detection of dangerous materials and removal of abandoned luggage in public transport terminals. More recently he has been working on the application of intelligent robots in Assistive Technology environments for the support of the disabled and elderly in domestic settings. This latter work includes multi-modal human/robot communication as well as collision-free navigation and robotic hand/eye coordination. This interest with the aged and

disabled began some time ago with the development of a robotic wheelchair which allowed its user maximum freedom within an envelope of safety provided by sensors and robotic control intervention when necessary. The degree of intervention adapted to the needs and state of capability of the user.

He was awarded an IARIA Best Paper Award in 2009 for his ACHI paper entitled ‘Multi-modal Robot/Human Interaction in an Assistive Technology Context’ and again in 2010 for his ACHI paper entitled ‘terrain-Aware Path Guided Mobile Robot Teleoperation in Virtual; and Real Space’. He presented a key note address entitled ‘ IntelligentRobotics: Perception, Reasoning, Acuation and Human Interaction’ at ACHI 2010.